

Appl No. 09/652,511  
Reply to Office action of 09/28/04

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-26 (Canceled).

27. (New) A system for providing priority based access to a shared resource, comprising:  
a central arbiter coupled to the shared resource, the central arbiter having a first input and a second input;  
a first device coupled to the first input of the central arbiter;  
a second device; and  
a priority based arbiter coupled between the second device and the second input of the central arbiter;  
wherein the priority based arbiter receives a signal from the first device indicative of a priority status of the first device; and  
wherein the priority based arbiter is responsive to generate a modified request signal responsive to a signal from the second device that is sent to the second input of the central arbiter after a delay of a predetermined amount of time based on the signal from the first device.

28. (New) The system of claim 27, the priority based arbiter further comprising a counter.

29. (New) The system of claim 28, wherein a value is input into the counter based on the signal indicative of the priority status of the first device; and  
the predetermined amount of time is based on the value in the counter.

30. (New) The system of claim 29, wherein the priority based arbitrator is configured to change the value in the counter based on a change of the signal from the first device indicative of the priority status of the first device.

31. (New) The system of claim 30, the priority based arbiter further comprises:

Appl No. 09/652,511  
Reply to Office action of 09/28/04

a programmable configuration logic for configuring the counter to generate the predetermined delay associated with respective context data.

32. (New) The system of claim 27, wherein said shared resource is a bus.

33. (New) The system of claim 27, wherein the priority based arbitrator provides no delay in generation of the modified request signal responsive to a signal from the first device indicative of an idle state.

34. (New) A system for providing priority based access to a shared resource, comprising:

a first device;

a second device;

means for alternatively granting access to the shared resource between the first device and the second device when both devices request access to the shared resource; and

means for delaying the request for access from the second device coupled between the second device and the means for alternatively granting access;

wherein the means for delaying the request for access from the second device is responsive to a signal from the first device indicative of a priority status of the first device to delay the request from the second device a predetermined amount of time based on the signal indicative of the priority status of the first device.

35. (New) The system of claim 34, the means for delaying further comprising means for counting.

36. (New) The system of claim 35, wherein a value is input into the means for counting based on the signal indicative of the priority status of the first device; and the predetermined amount of time is based on the value in the counter.

Appl No. 09/652,511  
Reply to Office action of 09/28/04

37. (New) The system of claim 36, wherein the means for delaying is configured to change the value in the means for counting based on a change of the signal from the first device indicative of the priority status of the first device.

38. (New) The system of claim 34, wherein said shared resource is a bus.

39. (New) The system of claim 27, wherein the means for delaying provides no delay responsive to a signal from the first device indicative of an idle state.

40. (New) A method for selectively granting access to a shared resource between a first device and a second device, comprising:

receiving a signal from the first device requesting access to the shared resource, the signal from the first device having an associated priority level; and

delaying a signal from the second device requesting access to the shared resource a predetermined amount of time based on the associated priority level of the first device.

41. (New) The method of claim 40, the delaying a signal further comprising:  
initializing a counter with a predetermined initial value based on the associated priority level of the first device; and

decrementing the counter until the counter reaches a predetermined threshold value;  
wherein the delaying continues until the counter reaches the predetermined threshold value.

42. (New) The method of claim 41, wherein the delaying further comprises:  
re-initializing the counter responsive to a change of the associated priority level of the signal from the first device indicative.

43. (New) The method of claim 40, wherein the delaying provides no delay responsive to a signal from the first device indicative of an idle state.

App'l No. 09/652,511  
Reply to Office action of 09/28/04

44. (New) The method of claim 40, wherein the associated priority level is one of the group consisting of high priority, low priority, and idle.